

L Number	Hits	Search Text	DB	Time stamp
1	200	(725/39).CCLS.	USPAT	2004/09/17 14:36
2	78	(725/95).CCLS.	USPAT	2004/09/17 14:37
3	785	(709/232 709/233).ccls.	USPAT	2004/09/17 14:37
4	1	(bit adj rate\$5) with (reserv\$6 allocat\$6) with (epg (electronic\$5 adj program\$5 adj guide\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/17 14:39
5	3	((725/39).CCLS.) and ((709/232 709/233).ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/17 14:38
6	2	((725/95).CCLS.) and ((709/232 709/233).ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/17 14:38
9	7	(bit adj rate\$5) with (frequenc\$6 bandwidth) with (reserv\$6 allocat\$6) and (epg (electronic\$5 adj program\$5 adj guide\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/17 14:40
12	20	(bit adj rate\$5) same (frequenc\$6 bandwidth) same (reserv\$6 allocat\$6) and (epg (electronic\$5 adj program\$5 adj guide\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/17 14:40
14	0	((bit adj rate\$5) same (frequenc\$6 bandwidth) same (reserv\$6 allocat\$6) and (epg (electronic\$5 adj program\$5 adj guide\$5))) and ((725/95).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/17 14:42
15	0	((bit adj rate\$5) same (frequenc\$6 bandwidth) same (reserv\$6 allocat\$6) and (epg (electronic\$5 adj program\$5 adj guide\$5))) and ((709/232 709/233).ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/17 14:42
13	2	((bit adj rate\$5) same (frequenc\$6 bandwidth) same (reserv\$6 allocat\$6) and (epg (electronic\$5 adj program\$5 adj guide\$5))) and ((725/39).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/17 14:42
-	1	("6549929").PN.	USPAT	2004/09/16 11:22
-	5	((("6208799") or ("6177931") or ("6167379") or ("5956455") or ("5844181"))).PN.	USPAT	2004/09/16 12:20
-	0	((("6208799") or ("6177931") or ("6167379") or ("5956455") or ("5844181"))).PN.) and (tivo)	USPAT	2004/09/16 13:06
-	2	((("4949251") or ("5113380"))).PN.	USPAT	2004/09/16 11:27
-	0	((("4949251") or ("5113380"))).PN.) and (tivo)	USPAT	2004/09/16 11:27
-	1	((("6208799") or ("6177931") or ("6167379") or ("5956455") or ("5844181"))).PN.) and (frequenc\$9)	USPAT	2004/09/16 13:10
-	33	(frequenc\$6 adj band\$5) same (epg (electronic\$5 adj program\$5 adj guide\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 13:19
-	291	(frequenc\$6 adj band\$5) with (viewer\$5 customer\$5 user\$5) with (allocat\$6 reserv\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 13:18
-	221	(frequenc\$6 adj band\$5) near9 (viewer\$5 customer\$5 user\$5) near9 (allocat\$6 reserv\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 13:23

-	3	((frequenc\$6 adj band\$5) near9 (viewer\$5 customer\$5 user\$5) near9 (allocat\$6 reserv\$6)) and (epg (electronic\$5 adj program\$5 adj guide\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:31
-	259	((frequenc\$6 adj band\$5) (transmission adj channel\$5)) near9 (viewer\$5 customer\$5 user\$5) near9 (allocat\$6 reserv\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 13:23
-	3	((frequenc\$6 adj band\$5) (transmission adj channel\$5)) near9 (viewer\$5 customer\$5 user\$5) near9 (allocat\$6 reserv\$6)) and (epg (electronic\$5 adj program\$5 adj guide\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:27
-	266	(frequenc\$5 adj band\$5) near9 (bit adj rate\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:27
-	13	(frequenc\$5 adj band\$5) near9 (bit adj rate\$5) near9 (allocat\$6 reserv\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:38
-	30	(frequenc\$5 adj (channel\$5 band\$5)) with (bit\$5 near rate\$5) with (allocat\$6 reserv\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:32
-	0	((frequenc\$5 adj (channel\$5 band\$5)) with (bit\$5 near rate\$5) with (allocat\$6 reserv\$6)) and (epg (electronic\$5 adj program\$5 adj guide\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:32
-	536	(frequenc\$5 adj (channel\$5 band\$5)) with (bit\$5 near rate\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:42
-	2	((frequenc\$5 adj (channel\$5 band\$5)) with (bit\$5 near rate\$5)) and (epg (electronic\$5 adj program\$5 adj guide\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:43
-	266	(frequenc\$5 adj band\$5) near9 (bit adj rate\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:39
-	0	(frequenc\$5 adj band\$5) near3 (bit adj rate\$5) near3 (mbps)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:39
-	1	(frequenc\$5 adj band\$5) near9 (bit adj rate\$5) near9 (mbps)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:39
-	136	(frequenc\$5 adj band\$5) near4 (bit adj rate\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:42
-	1036	(speed\$5) near3 (bit adj rate\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/16 14:42

-	16325	((bit adj rate\$5) speed\$6) with (reserv\$6 allocat\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/16 14:44
-	71	((bit adj rate\$5) speed\$6) with (reserv\$6 allocat\$6)) and (epg (electronic\$5 adj program\$5 adj guide\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/17 14:37
-	712	((bit adj rate\$5) speed\$6) with (reserv\$6 allocat\$6) with (customer\$6 user\$5 subscriber\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/16 14:44
-	4	((bit adj rate\$5) speed\$6) with (reserv\$6 allocat\$6) with (customer\$6 user\$5 subscriber\$6)) and (epg (electronic\$5 adj program\$5 adj guide\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/17 13:43
-	0	((av (audio adj video)) adj2 network\$3) near8 resource\$5 near8 reserv\$9 near8 (manag\$6 table\$5)	USPAT	2004/09/17 13:04
-	0	(frequenc\$5 adj band\$5) with (reserv\$6 allocat\$6) with (program\$3 adj guide\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/17 13:17
-	0	(frequenc\$5 adj band\$5) same (reserv\$6 allocat\$6) same (program\$3 adj guide\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/17 13:17
-	3067	(frequenc\$5 adj band\$5) near6 (reserv\$6 allocat\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/17 13:18
-	193	((frequenc\$5 adj band\$5) near6 (reserv\$6 allocat\$6)) and (725/\$).ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/17 13:18
-	11	(frequenc\$5 adj band\$5) near6 (reserv\$6 allocat\$6) near9 ((bit\$5 adj rat\$6) mpbs)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/17 13:20
-	2	((bit adj rate\$5) speed\$6) with (reserv\$6 allocat\$6) with (customer\$6 user\$5 subscriber\$6)) and (epg (electronic\$5 adj program\$5 adj guide\$5)) and bandwidth	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/17 13:57
-	963	(reserv\$6 near3 (schedule\$5 time\$5) near3 program\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/17 14:02
-	74	reserv\$6 near3 time\$5 near3 program\$5 near3 user\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/17 14:02



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1 [System-level power optimization: techniques and tools](#)

Luca Benini, Giovanni de Micheli

 April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**,
 Volume 5 Issue 2

Full text available: pdf(385.22 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic systems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survey ...

2 [Adaptive realtime bandwidth allocation for wireless data delivery](#)

Chi-Wai Lin, Haibo Hu, Dik-Lun Lee

 March 2004 **Wireless Networks**, Volume 10 Issue 2

Full text available: pdf(372.26 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The combination of broadcast and on-demand data delivery services is an economic way to build a highly scalable wireless information system with limited bandwidth. The use of data broadcasting should be adaptive so that the system response time can always be minimized. A traditional approach requires the development of a system response time equation in order to find the optimal solution. However, obtaining such an equation is not always possible. We observe that by maintaining a certain level of ...

Keywords: bandwidth allocation, mobile computing, on-demand broadcasting

3 [Provision of multimedia services over Europe by means of geostationary satellites with multispot coverage using small terminals](#)

Michele Luglio, Mauro Marinelli, Aldo Paraboni

 February 1998 **Wireless Networks**, Volume 4 Issue 2

Full text available: pdf(2.09 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The possibility to provide multimedia services over a wide area using small mobile terminals represents a challenging task. This task is even more challenging especially if high frequency bands are used and high service availability is required, considering that the

atmospheric conditions are very severe and geographically variable within a wide area. The use of high frequencies is necessary to provide wideband services at high data rate for a large number of users and the link availability ...

4 Transmission of video telephony images over wireless channels

Hang Liu, Magda El Zarki

August 1996 **Wireless Networks**, Volume 2 Issue 3


Full text available:  [pdf\(367.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, the effects of digital transmission errors on H.263 codecs are analyzed and the transmission of H.263 coded video over a TDM radio link is investigated. The impact of channel coding and interleaving on video transmission quality is simulated for different channel conditions. Fading on radio channels causes significant transmission errors and H.263 coded bit streams are very vulnerable to errors. Powerful Forward Error Correction (FEC) codes are therefore necessary to protect ...

5 Session 9: Parallel scheduling problems in next generation wireless networks

L. Becchetti, S. Diggavi, S. Leonardi, A. Marchetti-Spaccamela, S. Muthukrishnan, T. Nandagopal, A. Vitaletti

August 2002 **Proceedings of the fourteenth annual ACM symposium on Parallel algorithms and architectures**

Full text available:  [pdf\(330.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Next generation 3G/4G wireless data networks allow multiple codes (or channels) to be allocated to a single user, where each code can support multiple data rates. Providing fine-grained QoS to users in such networks poses the two dimensional challenge of assigning both power (rate) and codes for every user. This gives rise to a new class of parallel scheduling problems. We abstract general downlink scheduling problems suitable for proposed next generation wireless data systems. This includes a c ...

6 Efficient use of memory bandwidth to improve network processor throughput

Jahangir Hasan, Satish Chandra, T. N. Vijaykumar

May 2003 **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annual international symposium on Computer architecture**, Volume 31 Issue 2

Full text available:  [pdf\(184.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We consider the efficiency of packet buffers used in packet switches built using network processors (NPs). Packet buffers are typically implemented using DRAM, which provides plentiful buffering at a reasonable cost. The problem we address is that a typical NP workload may be unable to utilize the peak DRAM bandwidth. Since the bandwidth of the packet buffer is often the bottleneck in the performance of a shared-memory packet switch, inefficient use of available DRAM bandwidth further reduces th ...

7 Single-ISA Heterogeneous Multi-Core Architectures for Multithreaded Workload Performance

June 2004 **Proceedings of the 31st annual international symposium on Computer architecture - Volume 00**

Full text available:  [pdf\(223.32 KB\)](#)

Additional Information: [full citation](#), [abstract](#)



[Publisher Site](#)

A single-ISA heterogeneous multi-core architecture is a chip multiprocessor composed of cores of varying size, performance, and complexity. This paper demonstrates that this architecture can provide significantly higher performance in the same area than a conventional chip multiprocessor. It does so by matching the various jobs of a diverse workload to the various cores. This type of architecture covers a spectrum of workloads particularly well, providing high single-thread performance when thread paral ...

8 Software trace cache

Alex Ramírez, Josep-L. Larriba-Pey, Carlos Navarro, Josep Torrellas, Mateo Valero
May 1999 **Proceedings of the 13th international conference on Supercomputing**

Full text available:  pdf(1.12 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Multiprocessors with a serial multiport memory and a pseudo crossbar of serial links used s a processor-memory switch

Daniel Litaize, Omar Hammami, Mustapha Lalam, Adelaziz Mzoughi, Pascal Sinrat
December 1989 **ACM SIGARCH Computer Architecture News**, Volume 17 Issue 6

Full text available:  pdf(1.07 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)



This paper presents an inventive information exchange process between the main memory and cache equipped processors. It makes use of serial multiport memories and high throughput serial transmission supports. It is then possible to consider the realization of a multiprocessor with a common memory shared by several hundreds processors set with a performance level close to that of a crossbar network one's without having its disadvantages. This exchange process generates a family of possible archi ...

10 Evaluating the performance of a unified switching node using a simulated network

Kenneth J. Bodzioch, Bernard E. Patrusky
December 1976 **Proceedings of the 76 Bicentennial conference on Winter simulation**

Full text available:  pdf(750.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



This paper describes a program which utilizes a discrete event simulation to drive a real switching node. Empirical measurements of various nodal performance characteristics are gathered and recorded during the exercise of this program to aid in the evaluation and design of candidate future nodal architectures. Applications software and specialized hardware for a unified node which switches both digitized voice and data (packet) traffic were developed and tested in a flexible tes ...

11 Access pattern-based memory and connectivity architecture exploration

Peter Grun, Nikil Dutt, Alex Nicolau
February 2003 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 2 Issue 1

Full text available:  pdf(857.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)




Memory accesses represent a major bottleneck in embedded systems power and performance. Traditionally, designers tried to alleviate this problem by relying on a simple cache hierarchy, or a limited use of special purpose memory modules such as stream buffers. Although real-life applications contain a large number of memory references to a diverse set of data structures, a significant percentage of all memory accesses in the application are generated from a few memory instructions that exhibit pr ...

Keywords: Memory, access patterns, architecture exploration

12 Traffic characterization: Characteristics of fragmented IP traffic on internet links

Colleen Shannon, David Moore, k claffy
November 2001 **Proceedings of the First ACM SIGCOMM Workshop on Internet Measurement**

Full text available:  pdf(2.36 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)




Fragmented IP traffic is a unique component of the overall mix of traffic on the Internet. Many assertions about the nature and extent of fragmented traffic are anecdotal rather than empirical. In this paper we examine the causes and attributes of measured fragment traffic and contrast those results with commonly cited beliefs. In particular, the effects of NFS, streaming media, networked video games, and tunneled traffic are quantified, and we estimate the prevalence of packet fragmentation due ...

Keywords: CoralReef, TCP/IP, fragment, fragmentation

13 Programming the FlexRAM parallel intelligent memory system

Basilio B. Fraguera, Jose Renau, Paul Feautrier, David Padua, Josep Torrellas
June 2003 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 38 Issue 10

Full text available:  [pdf\(256.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In an intelligent memory architecture, the main memory of a computer is enhanced with many simple processors. The result is a highly-parallel, heterogeneous machine that is able to exploit computation in the main memory. While several instantiations of this architecture have been proposed, the question of how to effectively program them with little effort has remained a major challenge. In this paper, we show how to effectively hand-program an intelligent memory architecture at a high level and w ...

Keywords: compiler directives, intelligent memory architecture, parallel languages, programming heterogeneous computers

14 Online multicast routing with bandwidth guarantees: a new approach using multicast network flow

Murali Kodialam, T. V. Lakshman, Sudipta Sengupta
August 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 4


Full text available:  [pdf\(414.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a new algorithm for online routing of bandwidth-guaranteed multicasts where routing requests arrive one by one without there being any *a priori* knowledge of future requests. A multicast routing request consists of a source *s*, a set of receivers *R*, and a bandwidth requirement *b*. This multicast routing problem arises in many contexts. Two applications of interest are routing of point-to-multipoint label-switched paths in multiprotocol label switched ...

Keywords: MPLS, multicast, quality-of-service (QoS), routing

15 Online multicast routing with bandwidth guarantees: a new approach using multicast network flow

Murali S. Kodialam, T. V. Lakshman, Sudipta Sengupta
June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 28 Issue 1

Full text available:  [pdf\(883.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: Steiner tree, multicast routing, network flow, traffic engineering

16 Contention is no obstacle to shared-memory multiprocessing



Randall Rettberg, Robert Thomas

December 1986 **Communications of the ACM**, Volume 29 Issue 12

Full text available:  [pdf\(960.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Contention in large-scale shared-memory systems is less of a concern than generally believed. Through careful engineering of a parallel system, the effects of contention can be controlled.

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Kenneth J. Bodzioch, Bernard E. Patrusky

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Full text available:  [pdf\(750.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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1 [The personal electronic program guide—towards the pre-selection of individual TV programs](#)

Michael Ehrmantraut, Theo Härder, Hartmut Wittig, Ralf Steinmetz

November 1996 **Proceedings of the fifth international conference on Information and knowledge management**Full text available: [pdf\(923.87 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

2 [Video anywhere: a system for searching and managing distributed heterogeneous video assets](#)

Amit Sheth, Clemens Bertram, Kshitij Shah

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1Full text available: [pdf\(545.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Visual information, especially videos, plays an increasing role in our society for both work and entertainment as more sources become available to the user. Set-top boxes are poised to give home users access to videos that come not only from TV channels and personal recordings, but also from the Internet in the form of downloaded and streaming videos of various types. Current approaches such as Electronic Program Guides and video search engines search for video assets of one type or from on ...

3 [A contribution to the design process](#)

Klaus B. Bærentsen, Henning Slavenky

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TITLE: **Resources reservation management apparatus in audio-video networks**, judges assignment of bandwidth of reservation program based on reservation demand and communicates when starting time of reservation program is reached

----- KWIC -----

Title - TIX (1):

Resources reservation management apparatus in audio-video networks, judges assignment of bandwidth of reservation program based on reservation demand and communicates when starting time of reservation program is reached

Standard Title Terms - TTX (1):

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